

TREC-IS 2019-A Notebook Evaluator v2.0
Run: UPB-DICE ([UPB_DICE].run)

EVALUATION: Alertng Performance
Overall performance

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> High Importance Alert Worth: 0.015994236311235477  
> Low Importance Alert Worth: 0.4984925483165643  
> Accumulated Alert Worth: 0.2572433923138999
```

EVALUATION: Information Type Categorization
Overall performance

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> Information Type Precision (positive class, multi-type, macro): 0.28508961063705146  
> Information Type Recall (positive class, multi-type, macro): 0.2506070213372206  
> Information Type F1 (positive class, multi-type, macro): 0.21836295761920113  
> Information Type Accuracy (overall, multi-type, macro): 0.8740011789363374  
> High Importance Information Type Precision (positive class, multi-type, macro): 0.08008087201125176  
> High Importance Information Type Recall (positive class, multi-type, macro): 0.03760133524082022  
> High Importance Information Type F1 (positive class, multi-type, macro): 0.0500703564727955  
> High Importance Information Type Accuracy (overall, multi-type, macro): 0.9774692166623002  
> Low Importance Information Type Precision (positive class, multi-type, macro): 0.3534258568456513  
> Low Importance Information Type Recall (positive class, multi-type, macro): 0.3216089167026874  
> Low Importance Information Type F1 (positive class, multi-type, macro): 0.27446049133466965  
> Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8395118330276831
```

EVALUATION: Information Priority Level
Overall Performance

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> Priority Estimation Error (mean squared error, macro): 0.06908757747782286  
> Priority Estimation Error High Importance (mean squared error, macro): 0.16154442082066728  
> Priority Estimation Error Low Importance (mean squared error, macro): 0.038268629696874744
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LATEX

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UPB-DICE & 0.0160 & 0.2572 & 0.0287 & 0.1955 & 0.8502 & 0.1615 & 0.0691 \\
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EVALUATION: Information Type Categorization (Multi-type)
Per Event Performance

floodChoco2019

Information Type Precision (positive class, multi-type, macro): 0.07264390701890701
Information Type Recall (positive class, multi-type, macro): 0.12986438679245285
Information Type F1 (positive class, multi-type, macro): 0.059658971878275874
Information Type Accuracy (overall, multi-type, macro): 0.9064910025706941
High Importance Information Type Precision (positive class, multi-type, macro): 0.020833333333333332
High Importance Information Type Recall (positive class, multi-type, macro): 0.05555555555555555
High Importance Information Type F1 (positive class, multi-type, macro): 0.030303030303030304
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9785775492716366
Low Importance Information Type Precision (positive class, multi-type, macro): 0.08991409824743157
Low Importance Information Type Recall (positive class, multi-type, macro): 0.15463399720475193
Low Importance Information Type F1 (positive class, multi-type, macro): 0.06944428573669106
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.88246215367038

earthquakeCalifornia2014

Information Type Precision (positive class, multi-type, macro): 0.15956042492561448
Information Type Recall (positive class, multi-type, macro): 0.13604619010802568
Information Type F1 (positive class, multi-type, macro): 0.11737303655026698
Information Type Accuracy (overall, multi-type, macro): 0.8989501312335958
High Importance Information Type Precision (positive class, multi-type, macro): 0.0
High Importance Information Type Recall (positive class, multi-type, macro): 0.0
High Importance Information Type F1 (positive class, multi-type, macro): 0.0
High Importance Information Type Accuracy (overall, multi-type, macro): 0.979002624671916
Low Importance Information Type Precision (positive class, multi-type, macro): 0.21274723323415265
Low Importance Information Type Recall (positive class, multi-type, macro): 0.18139492014403424
Low Importance Information Type F1 (positive class, multi-type, macro): 0.15649738206702266
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8722659667541559

earthquakeBohol2013

Information Type Precision (positive class, multi-type, macro): 0.24570285220785046
Information Type Recall (positive class, multi-type, macro): 0.30928750534383637
Information Type F1 (positive class, multi-type, macro): 0.21081066787402336
Information Type Accuracy (overall, multi-type, macro): 0.8950592353257943
High Importance Information Type Precision (positive class, multi-type, macro): 0.018518518518518517
High Importance Information Type Recall (positive class, multi-type, macro): 0.1111111111111111
High Importance Information Type F1 (positive class, multi-type, macro): 0.03174603174603175
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9900376952073237
Low Importance Information Type Precision (positive class, multi-type, macro): 0.3214309634376278
Low Importance Information Type Recall (positive class, multi-type, macro): 0.3753463034214115
Low Importance Information Type F1 (positive class, multi-type, macro): 0.2704988799166872
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8633997486986179

hurricaneFlorence2018

Information Type Precision (positive class, multi-type, macro): 0.2826707606844794
Information Type Recall (positive class, multi-type, macro): 0.24391767814812915
Information Type F1 (positive class, multi-type, macro): 0.21018145360441087
Information Type Accuracy (overall, multi-type, macro): 0.881469254368414
High Importance Information Type Precision (positive class, multi-type, macro): 0.1231371439351066
High Importance Information Type Recall (positive class, multi-type, macro): 0.05449252790447584
High Importance Information Type F1 (positive class, multi-type, macro): 0.07552827083055297
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9735894357743096
Low Importance Information Type Precision (positive class, multi-type, macro): 0.33584863293427025
Low Importance Information Type Recall (positive class, multi-type, macro): 0.30705939489601364
Low Importance Information Type F1 (positive class, multi-type, macro): 0.25506584786236347
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8507625272331156

shootingDallas2017

Information Type Precision (positive class, multi-type, macro): 0.17352349806665976
Information Type Recall (positive class, multi-type, macro): 0.1999262090179175
Information Type F1 (positive class, multi-type, macro): 0.13046277885898988
Information Type Accuracy (overall, multi-type, macro): 0.8740625
High Importance Information Type Precision (positive class, multi-type, macro): 0.017543859649122806
High Importance Information Type Recall (positive class, multi-type, macro): 0.018518518518518517
High Importance Information Type F1 (positive class, multi-type, macro): 0.018018018018018018
High Importance Information Type Accuracy (overall, multi-type, macro): 0.99675
Low Importance Information Type Precision (positive class, multi-type, macro): 0.22551671087250538
Low Importance Information Type Recall (positive class, multi-type, macro): 0.2603954391843838
Low Importance Information Type F1 (positive class, multi-type, macro): 0.16794436580598052
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8331666666666666

fireYMM2016

Information Type Precision (positive class, multi-type, macro): 0.32794708045126036
Information Type Recall (positive class, multi-type, macro): 0.24441376940842707
Information Type F1 (positive class, multi-type, macro): 0.19553525104006098
Information Type Accuracy (overall, multi-type, macro): 0.8501875

High Importance Information Type Precision (positive class, multi-type, macro): 0.12962962962962962
High Importance Information Type Recall (positive class, multi-type, macro): 0.017795365738321012
High Importance Information Type F1 (positive class, multi-type, macro): 0.028677370449522347
High Importance Information Type Accuracy (overall, multi-type, macro): 0.9588333333333333
Low Importance Information Type Precision (positive class, multi-type, macro): 0.39405289739180394
Low Importance Information Type Recall (positive class, multi-type, macro): 0.31995323729846237
Low Importance Information Type F1 (positive class, multi-type, macro): 0.25115454457024056
Low Importance Information Type Accuracy (overall, multi-type, macro): 0.8139722222222222

EVALUATION: Information Type Categorization (Multi-type)
Per Information Type Performance

Request-GoodsServices

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7611
Request-GoodsServices	0.00	0.00	0.00	23
micro avg	1.00	1.00	1.00	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	0.99	1.00	1.00	7634

Request-SearchAndRescue

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7624
Request-SearchAndRescue	0.00	0.00	0.00	10
micro avg	1.00	1.00	1.00	7634
macro avg	0.50	0.50	0.50	7634
weighted avg	1.00	1.00	1.00	7634

Request-InformationWanted

	precision	recall	f1-score	support
Other Classes	0.99	1.00	1.00	7563
Request-InformationWanted	0.40	0.06	0.10	71
micro avg	0.99	0.99	0.99	7634
macro avg	0.70	0.53	0.55	7634
weighted avg	0.99	0.99	0.99	7634

CallToAction-Volunteer

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7610
CallToAction-Volunteer	0.29	0.08	0.13	24
micro avg	1.00	1.00	1.00	7634
macro avg	0.64	0.54	0.56	7634
weighted avg	0.99	1.00	1.00	7634

CallToAction-Donations

	precision	recall	f1-score	support
Other Classes	1.00	1.00	1.00	7556
CallToAction-Donations	0.63	0.73	0.67	78
micro avg	0.99	0.99	0.99	7634
macro avg	0.81	0.86	0.84	7634
weighted avg	0.99	0.99	0.99	7634

CallToAction-MovePeople

	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	7527
CallToAction-MovePeople	0.00	0.00	0.00	107
micro avg	0.99	0.99	0.99	7634
macro avg	0.49	0.50	0.50	7634
weighted avg	0.97	0.99	0.98	7634

Report-FirstPartyObservation

	precision	recall	f1-score	support
Other Classes	0.96	0.76	0.85	7150
Report-FirstPartyObservation	0.12	0.48	0.19	484
micro avg	0.74	0.74	0.74	7634
macro avg	0.54	0.62	0.52	7634
weighted avg	0.90	0.74	0.81	7634

Report-ThirdPartyObservation		precision	recall	f1-score	support
Other Classes	0.97	0.82	0.89	7317	
Report-ThirdPartyObservation	0.10	0.45	0.16	317	
micro avg	0.81	0.81	0.81	7634	
macro avg	0.54	0.64	0.53	7634	
weighted avg	0.94	0.81	0.86	7634	
Report-Weather		precision	recall	f1-score	support
Other Classes	0.98	0.98	0.98	7334	
Report-Weather	0.47	0.42	0.45	300	
micro avg	0.96	0.96	0.96	7634	
macro avg	0.73	0.70	0.71	7634	
weighted avg	0.96	0.96	0.96	7634	
Report-EmergingThreats		precision	recall	f1-score	support
Other Classes	0.94	0.98	0.96	7168	
Report-EmergingThreats	0.27	0.09	0.14	466	
micro avg	0.93	0.93	0.93	7634	
macro avg	0.61	0.54	0.55	7634	
weighted avg	0.90	0.93	0.91	7634	
Report-NewSubEvent		precision	recall	f1-score	support
Other Classes	0.98	1.00	0.99	7492	
Report-NewSubEvent	0.00	0.00	0.00	142	
micro avg	0.98	0.98	0.98	7634	
macro avg	0.49	0.50	0.50	7634	
weighted avg	0.96	0.98	0.97	7634	
Report-MultimediaShare		precision	recall	f1-score	support
Other Classes	0.82	0.87	0.85	6034	
Report-MultimediaShare	0.38	0.29	0.33	1600	
micro avg	0.75	0.75	0.75	7634	
macro avg	0.60	0.58	0.59	7634	
weighted avg	0.73	0.75	0.74	7634	
Report-ServiceAvailable		precision	recall	f1-score	support
Other Classes	0.98	0.99	0.99	7484	
Report-ServiceAvailable	0.21	0.13	0.16	150	
micro avg	0.97	0.97	0.97	7634	
macro avg	0.60	0.56	0.57	7634	
weighted avg	0.97	0.97	0.97	7634	
Report-Factoid		precision	recall	f1-score	support
Other Classes	0.90	0.95	0.92	6625	
Report-Factoid	0.47	0.30	0.37	1009	
micro avg	0.86	0.86	0.86	7634	
macro avg	0.69	0.63	0.65	7634	
weighted avg	0.84	0.86	0.85	7634	
Report-Official		precision	recall	f1-score	support

Other Classes	0.97	1.00	0.98	7404
Report-Official	0.32	0.03	0.06	230
micro avg	0.97	0.97	0.97	7634
macro avg	0.65	0.52	0.52	7634
weighted avg	0.95	0.97	0.96	7634

Report-News				
	precision	recall	f1-score	support
Other Classes	0.92	0.75	0.82	6158
Report-News	0.41	0.72	0.52	1476
micro avg	0.74	0.74	0.74	7634
macro avg	0.66	0.74	0.67	7634
weighted avg	0.82	0.74	0.77	7634

Report-CleanUp				
	precision	recall	f1-score	support
Other Classes	0.99	1.00	0.99	7559
Report-CleanUp	0.30	0.04	0.07	75
micro avg	0.99	0.99	0.99	7634
macro avg	0.65	0.52	0.53	7634
weighted avg	0.98	0.99	0.99	7634

Report-Hashtags				
	precision	recall	f1-score	support
Other Classes	0.52	0.93	0.67	3789
Report-Hashtags	0.71	0.17	0.27	3845
micro avg	0.55	0.55	0.55	7634
macro avg	0.62	0.55	0.47	7634
weighted avg	0.62	0.55	0.47	7634

Report-OriginalEvent				
	precision	recall	f1-score	support
Other Classes	0.89	0.99	0.93	6750
Report-OriginalEvent	0.34	0.06	0.10	884
micro avg	0.88	0.88	0.88	7634
macro avg	0.62	0.52	0.52	7634
weighted avg	0.83	0.88	0.84	7634

Other-ContextualInformation				
	precision	recall	f1-score	support
Other Classes	0.96	0.79	0.87	7364
Other-ContextualInformation	0.02	0.14	0.04	270
micro avg	0.77	0.77	0.77	7634
macro avg	0.49	0.47	0.45	7634
weighted avg	0.93	0.77	0.84	7634

Other-Advice				
	precision	recall	f1-score	support
Other Classes	0.96	0.92	0.94	7183
Other-Advice	0.26	0.47	0.33	451
micro avg	0.89	0.89	0.89	7634
macro avg	0.61	0.69	0.64	7634
weighted avg	0.92	0.89	0.90	7634

Other-Sentiment				
	precision	recall	f1-score	support
Other Classes	0.93	0.67	0.78	5844
Other-Sentiment	0.44	0.83	0.58	1790
micro avg	0.71	0.71	0.71	7634
macro avg	0.68	0.75	0.68	7634

weighted avg	0.81	0.71	0.73	7634
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Other-Discussion	precision	recall	f1-score	support
Other Classes	0.92	0.85	0.89	7064
Other-Discussion	0.06	0.11	0.07	570
micro avg	0.80	0.80	0.80	7634
macro avg	0.49	0.48	0.48	7634
weighted avg	0.86	0.80	0.82	7634

Other-Irrelevant	precision	recall	f1-score	support
Other Classes	0.74	0.89	0.80	5013
Other-Irrelevant	0.64	0.39	0.49	2621
micro avg	0.72	0.72	0.72	7634
macro avg	0.69	0.64	0.65	7634
weighted avg	0.70	0.72	0.70	7634